

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-201)

DATE OF PREP 8-20-81

Section I

MANUFACTURER'S NAME BOSTIK WEST, DIV. OF USM CORPORATION, AN EMHART UNIT

STREET ADDRESS 20846 So. Normandie Ave. CITY, STATE, AND ZIP CODE Torrance, Ca.

EMERGENCY TELEPHONE NO. (213) 320-6800

DMS 1786

PRODUCT CLASS EPOXY

MANUFACTURERS CODE IDENTIFICATION 463-12-8

Catalyst: CA-116

TRADE NAME BOSTIK

Mix Ratio: 1 part 463-12-8(Base) to
1 part CA-116 by volume.

Section II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS No.	PERCENT (WT.)	TLV		LEL	VAPOR PRESSURE mm Hg.
			PPM	mg/M ³		
463-12-8(Base)						
Xylene	1330-20-7	5-10	100		1.0	7.0
Methyl n-Butyl Ketone	591-78-6	5-10	25		1.2	10.0
Methyl Isobutyl Ketone	108-10-1	5-10	100		1.4	15.0
Methyl Ethyl Ketone	78-93-3	10-15	200		1.8	70.0
Butyl Alcohol	71-36-3	<5.0	100		1.7	4.0
Chromate Pigments:						
As Chromium	13765-19-0	<3.0	---	*0.05	---	---
As Lead	17758-97-6	<0.4	---	*0.05	---	---
*OSHA, 8 hr., TWA						

Section III - PHYSICAL DATA

BOILING RANGE 176-262° F

VAPOR DENSITY



HEAVIER



LIGHTER THAN AIR

EVAPORATION RATE



FASTER



SLOWER THAN ETHER

PERCENT VOLATILE
BY VOLUME

60.5%

WEIGHT PER
GALLON

10.2 lbs

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY Red Label, Flammable

(Min)
FLASH POINT 23°F Tag Closed Cup LEL 1.0

EXTINGUISHING MEDIA

Exclude air - Use foam, CO₂, steam, water fog,
dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between
upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray
to cool fire exposed surfaces and to protect
personnel.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

Emergency and first aid procedures: Skin Exposure: Wash affected area with soap & water.

Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air, consult physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID: Storage at high temperatures.

Incompatibility (Materials to avoid): Strong oxidizing agents. Sparks and open flame.

Hazardous Decomposition Products: On combustion CO, CO₂, Aldehydes and other organics, lead fumes oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water.

WASTE DISPOSAL METHOD

Consult disposal expert & ensure conformity with local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No-smoking or open lights.

VENTILATION : Face velocity > 60 fpm in confined area.

Protective gloves: Chemically resistant gloves.

EYE PROTECTION: Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Keep containers closed when not in use. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied - these containers retain product residues (vapor, liquid, etc)

OTHER PRECAUTIONS

All handling equipment should be electrically grounded. Treat as a very flammable liquid.



Lee A. Dickinson
Technical Service Manager

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP 8-20-81

Section I

MANUFACTURER'S NAME BOSTIK WEST, DIV. OF USM CORPORATION, AN EMHART UNIT

STREET ADDRESS 20846 So. Normandie Ave. CITY, STATE, AND ZIP CODE Torrance, Ca. 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS AMINE

MANUFACTURERS CODE IDENTIFICATION CA-116

Catalyst for 463-12-8

TRADE NAME BOSTIK

Mix Ratio: 1 part 463-12-8(Base)
to 1 part CA-116 by volume.

Section II - HAZARDOUS INGREDIENTS

INGREDIENT CA-116 Epoxy Catalyst	CAS No.	PERCENT (WT.)	TLV		LEL	VAPOR PRESSURE mm Hg.
			PPM	mg/M ³		
Methyl Ethyl Ketone	78-93-3	60-65	200		1.8	70.0
Isopropyl Alcohol	67-63-0	25-30	400		2.5	33.0
Toluene	108-88-3	5-10	200		1.2	22.0
Tertiary Aromatic Amine	90-72-2	<3.0	*5		NE	<0.01
Amino Silane Ester	1760-24-3	<3.0	**NE		NE	<1.0
*8 Hr. TWA, ACGIH						
**NE--Not Established						

Section III - PHYSICAL DATA

BOILING RANGE 176-231°F

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME 96.3% WEIGHT PER GALLON 6.76 lbs.

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY Red Label, Flammable

(Min) FLASH POINT 23°F tag Closed Cup LEL 1.2

EXTINGUISHING MEDIA

Exclude air - Use foam, CO₂, steam, water fog, dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect personnel.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat, and eyes.

Emergency and first aid procedures: Skin Exposure: Wash affected area with soap and water.

Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air., consult physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID: Storage at high temperatures.

Incompatibility(Materials to avoid) : Strong oxidizing agents. Sparks & open flame

Hazardous Decomposition Products: On combustion CO, CO₂, Aldehydes and other organics, oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water.

Consult disposal expert and ensure conformity with local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60 fpm in confined area

Protective Gloves: Chemically resistant gloves.

EYE PROTECTION : Chemical splash goggles or face shield.

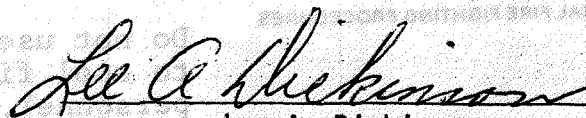
OTHER PROTECTIVE EQUIPMENT : Eye bath & Safety Shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed when not in use. Do not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied - these containers retain product residues (vapor, liquid, etc).

OTHER PRECAUTIONS

All handling equipment should be electrically grounded. Treat as a very flammable liquid.



Lee A. Dickinson
Technical Service Manager